

CLAIMS

WHAT IS CLAIMED IS:

- 1 1. A display system, comprising:
2 a plurality of tiles, each tile of the tiles including a matrix of pixel elements,
3 the pixel elements selectively providing light at a first surface of the tile in response to
4 address signals, the pixel elements being coupled to an address circuit via conductors
5 at a second surface, the first surface being opposite the second surface; and
6 a medium having a mounting surface, the plurality of tiles being attached
7 to or above the mounting surface.
- 1 2. The display system of claim 1, wherein the medium is transparent
2 and the tiles are mounted so that the first surface is closer to the mounting surface than
3 the second surface.
- 1 3. The display system of claim 1, wherein the medium is flexible.
- 1 4. The display system of claim 1, wherein the address signals are row
2 and column address signals.
- 1 5. The display system of claim 1, further comprising:
2 an interconnect member coupled to the second surface, the interconnect
3 member including a front surface coupled to the second surface and a back surface
4 opposite the front surface, wherein conductive vias extend from the front surface to the
5 back surface, the conductive vias being coupled to the conductors.
- 1 6. The display system of claim 5, further comprising:
2 an interposer coupled to the interconnect member, the interposer
3 including the address circuit.

1 7. The display system of claim 6, wherein the interposer is coupled to
2 the interconnect member by flexible leads and the interconnect member is a flexible
3 circuit board.

1 8. A cockpit display, comprising:
2 a plurality of display tiles, at least one tile of the display tiles including a
3 matrix of pixel elements, the pixel display tiles including conductors at a second surface
4 of the pixel web, the first surface being opposite the second surface; and

5 a medium having a mounting surface, the plurality of display tiles being
6 attached to or above the mounting surface at the first surface.

1 9. The cockpit display of claim 8, wherein the medium is flexible.

1 10. The cockpit display of claim 9, wherein the display tile further
2 comprises a flexible interconnect medium coupled to the conductors.

1 11. A display apparatus, comprising:
2 first means for providing first light from first pixel elements at a first
3 surface, the first surface being opposite a second surface, the second surface including
4 first contacts;

5 first means for providing first paths for first electric signals, the first paths
6 being connected to the first contacts, the first means for providing first paths being
7 mounted behind the second surface and being closer to the second surface than the
8 first surface;

9 second means for providing second light from second pixel elements at a
10 third surface, the third surface being opposite a fourth surface, the fourth surface
11 including second contacts;

12 second means for providing second paths for second electric signals, the
13 second paths being connected to the second contacts, the second means for providing
14 second paths being mounted behind the fourth surface and being closer to the fourth

15 surface than the third surface; and

16 means for providing the first electric signals and second electric signals to
17 the first means for providing paths and second paths, the first electric signals and
18 second electric signals controlling the first light and the second light.

1 12. The display apparatus of claim 11, further comprising:

2 means for providing display signals from a remote location to the means
3 for providing the electric signals.

1 13. A method of operating a display, the method comprising:

2 providing first electric signals from behind a back surface of a first pixel
3 web to the back surface of the first pixel web, the first pixel web being located on a first
4 tile;

5 providing light at a front surface of the first pixel web on the first tile in
6 accordance with the first electric signals;

7 providing second electric signals from behind a back surface of a second
8 pixel web to the back surface of the second pixel web, the second pixel web being
9 located on a second tile; and

10 providing light at a front surface of the second pixel web on the second
11 tile in accordance with the second electric signals.

1 14. The method of claim 13, wherein the first electric signals travel

2 from the back surface to the front surface through conductive vias extending through
3 the pixel web.

1 15. The method of claim 14, wherein the first pixel web and the second

2 pixel web are attached to a medium, the first pixel web having a first edge adjacent a
3 second edge of the second pixel web.

1 16. A method of manufacturing a display system, the method
2 comprising:
3 providing a plurality of tiles, each of the tiles having a first surface and a
4 second surface parallel with a first plane, wherein the first surface includes a plurality of
5 pixel elements for selectively providing light, the second surface including a plurality of
6 contacts electrically associated with the pixel elements;
7 providing a transparent carrier medium; and
8 attaching the tiles to the carrier medium.

1 17. The method of claim 16, wherein the carrier medium is a plastic
2 film.

1 18. The method of claim 17, further comprising:
2 electrically coupling a conductor to at least one of the contacts on the
3 second surface to a circuit board.

1 19. A display comprising:
2 a plurality of tiles, each of the tiles having a first surface and a second
3 surface parallel with a first plane, wherein the first surface includes a plurality of pixel
4 elements for selectively providing light, the second surface including a plurality of
5 contacts electrically associated with the pixel elements, wherein conductive vias extend
6 from the contacts to the pixel elements in a direction relatively perpendicular to the first
7 plane.

1 20. The display of claim 19, wherein edges of the tiles do not include
2 interconnections, all interconnections for the tiles being accomplished in the direction
3 relatively perpendicular to the first plane.